

# USE OF OER IN PUBLIC SCHOOLS OF PAKISTAN

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# USE OF OER IN PUBLIC SCHOOLS OF PAKISTAN:

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REGION: PAKISTAN IN SOUTH-EAST ASIA



# INVESTIGATING THE IMPACT OF OER ON SECONDARY AND TERTIARY EDUCATION IN PAKISTAN

OBJECTIVES are to understand the

- Extent of use of OER by students and teachers
- Factors that enable and inhibit the use of OER by students and teachers
- Impact of use of OER on student learning such as development of critical thinking skills, participation in the class, achievement in subject and collaboration among learners

# COMPUTER LABS IN SCHOOLS

- Punjab – 2008
- KPK – 2015, 500 schools equipped with Labs
- Sindh
- Balochistan
- Gilgit Baltistan







# SCHOOL'S TECHNOLOGY INFRASTRUCTURE

## Schools

Facilities	Availability
IT Lab Setup (2008-to date)	✓
Internet	?
Information System	?
OER Library	×

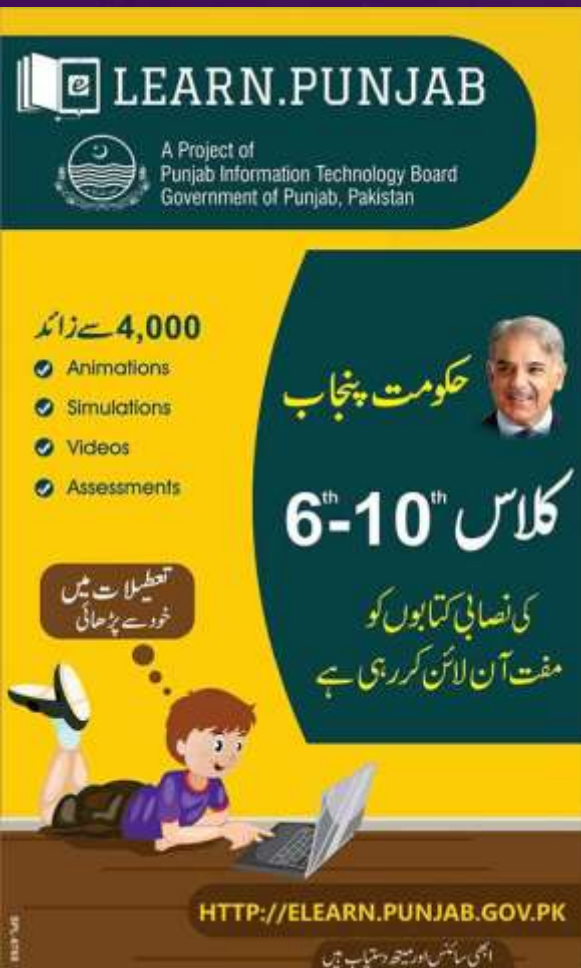
## Universities

Facilities	Availability
IT Lab Laptop distribution	✓
Internet	✓
LMS \UMS	?
OER Library	✓



# OER INITIATIVES IN PAKISTAN

## Schools



**LEARN.PUNJAB**  
A Project of  
Punjab Information Technology Board  
Government of Punjab, Pakistan

4,000 سے زائد  
✓ Animations  
✓ Simulations  
✓ Videos  
✓ Assessments

حکومت پنجاب  
کلاس 6<sup>th</sup>-10<sup>th</sup>  
کی نصابی کتابوں کو  
مفت آن لائن کر رہی ہے

اعطیلات میں  
خود سے پڑھائی

HTTP://ELEARN.PUNJAB.GOV.PK

انجمن سائنس اور میٹھ دستاویز چن

- Digitized Textbooks grade 6-10
- Videos in the text to augment student understanding.

## Universities



HOME COURSES ABOUT VU CONTACT US TERMS OF USE

**VUI**  
Virtual University

**OPEN COURSEWARE**  
VIRTUAL UNIVERSITY OF PAKISTAN

FIND COURSE

**2012**  
OUTSTANDING  
NEW SITE

**Learning**  
made easy

EDUCATION FOR ALL

The Virtual University of Pakistan has always been committed to education for all and has, from its very inception, pursued an open policy regarding its content. The course material has been made freely available through broadcast television, DVDs and YouTube, and is extensively used by students and faculty members alike from other universities, both formally and informally. To further this commitment, VU has now published all courses on its open courseware site, and thereby joined ranks with the top five universities of the world.

**FIND COURSES**

- Accounting, Banking & Finance
- Bioinformatics
- Biotechnology
- Computer Science/Information Technology
- Economics
- English
- Humanities/Communication
- Law
- Management
- Marketing
- Mass Communication
- Mathematics
- Physics
- Probability & Statistics

### Virtual University of Pakistan

- 6000 hours of course material
- Over 160 university courses

# METHODOLOGY

Respondents of Survey	SCHOOLS	UNIVERSITY
Administrators	X	
Students	X	X
Teachers	X	X



# SCHOOL STUDENTS & TEACHERS SURVEYED

District	Number of Female Schools	Number of Male Schools	Total number of Students
Faisalaba	5	4	1529
GUjranwala	2	2	863
Jehlum	2	1	548
Kasur	2	1	1042
Lahore	4	3	3508
Rawalpindi	2	4	810
Total	17	15	8300

# UNIVERSITY STUDENTS & TEACHERS SURVEYED

Province	N	ni	Public Uni.	Pvt. Uni	Teachers	Students
Islamabad	18	3	1	2	15	975
Punjab	57	13	5	8	70	2146
Sindh	51	1	0	1	26	30
KPK	32	7	7	0	30	175
Total	158	24	13	11	141	3326

Students and teachers of 1<sup>st</sup> students of BS Engineering and Technology

# OER USE BY SCHOOL TEACHERS

- 60% of secondary school teachers: male and females teachers having Post Graduate qualification are aware of OER resources. Teachers with Diploma or Bachelors qualification are not aware of OER.
- mostly use OER to learn about Computer Science and in limited cases about Science subjects.
- provide background and up to date information about the topic
- get students excited about a topic, develop critical thinking skills,
- improve learning in the subject, allow the teacher to do things that are not usually done, increase learner participation,
- increase interest of learner in the subject, improve learner satisfaction with the learning experience,

# OER USE BY SCHOOL TEACHERS

- AS IS, by downloading
- Perceived Barrier:
- Time consuming
- Indicated need for training in combining and sharing resources as well as in adding open license to the resources.
- Indicated training in locating available resources



# OER USE BY UNIVERSITY STUDENTS

- students (80%) are either not aware or have not used most of the OER repositories that are available online.
- None of the university students surveyed reported about using any university prescribed learning resources or OERs.
- Regarding the contextualization and use of OERs by university students, 93% students reported that they download the OERs from the internet to enhance their respective learning
- 75.3% (8.9% always; 22.5% often; 43.9% sometimes) students use this material without changing it.

# OER USE BY UNIVERSITY TEACHERS

- 29% of university teachers who are aware of OER
- Use AS IS after downloading
- OERs give access to best possible resources
- OERs are cost efficient for learners as well as for institutions
- 73% teachers were using OERs because it enables the creation of more flexible material and improves the quality of teaching.
- **Perceived Barriers:**
  - Technological factors
  - Non-availability of OER in local language as inhibiting factors.

# ROER4D META-SYNTHESIS FRAMEWORK (OUR 2 CENTS)

- Educational Challenges – basic resources to build on, cost of distance edu. Progs/ job placements
- Contextual Factors – Language, organizational norms, infrastructure, discipline
- Agents – perception of students, teachers, etc. Govt. policy
- OEP/OER - focus on 4Rs, use of resources As IS, knowledge of what OERs are
- Impact -
- Import -



THANK YOU

